AMENDMENTS TO THE CLAIMS

Listing of the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A device for direct delivery of a shear thickening fluid having therapeutic properties to a target site, the device comprising:

a channel having a proximal end, and a distal end and a <u>central</u> lumen extending therethrough, the <u>central</u> lumen having a longitudinal axis, the channel containing a shear thickening fluid having therapeutic properties, the channel configured to expose the shear thickening fluid to a viscosity adjuster; and

wherein the viscosity adjuster comprises at least two non-overlapping projections extending from one or more walls of the channel and leaving an open flow channel coincident with parallel to the central lumen's longitudinal axis.

2-18. (Cancelled)

19. (Currently Amended) A method for directly delivering a shear thickening fluid having therapeutic properties to a target site, the method comprising:

loading the fluid in a channel, the channel having a <u>central</u> lumen and a viscosity adjuster, the <u>central</u> lumen having a longitudinal axis, and the viscosity adjuster comprising at least two non-overlapping projections extending from one or more walls of the channel and leaving an open flow channel <u>coincident with parallel to</u> the <u>central</u> lumen's longitudinal axis;

adjusting the viscosity of the fluid by exposing the fluid to the viscosity adjuster of the channel; and

delivering the fluid to a target site.

- 20. (Previously Presented) The method of claim 19, wherein adjusting the viscosity increases the viscosity of the shear thickening fluid.
- 21. (Cancelled)
- 22. (Previously Presented) The device of claim 1, wherein the viscosity adjuster is at the distal end only of the lumen.
- 23. (Previously Presented) The device of claim 1, wherein the shear thickening fluid having therapeutic properties comprises a shear thickening fluid pre-loaded with a therapeutic.
- 24. (Previously Presented) The device of claim 1, wherein the therapeutic is a pharmaceutically active compound.
- 25. (Previously Presented) The method of claim 19, wherein the viscosity adjuster is at the distal end only of the lumen.
- 26. (Previously Presented) The method of claim 19, wherein the shear thickening fluid having therapeutic properties comprises a shear thickening fluid pre-loaded with a therapeutic.
- 27. (Previously Presented) The method of claim 19, wherein the therapeutic is a pharmaceutically active compound.
- 28. (Previously Presented) The device of claim 1, wherein at least one of the at least two non-overlapping projections comprises a post- or peg-like shape.

- 29. (Previously Presented) The device of claim 1, wherein at least one of the at least two non-overlapping projections comprises a truncated cone shape.
- 30. (Previously Presented) The device of claim 1, wherein at least one of the at least two non-overlapping projections comprises a ridged shape.
- 31. (Previously Presented) The device of claim 1, wherein the at least two nonoverlapping projections define at least one constricted flow orifice.
- 32. (Previously Presented) The device of claim 31, wherein the at least one constricted flow orifice comprises a single flow orifice having a circular shape.
- 33. (Previously Presented) The device of claim 31, wherein the at least one constricted flow orifice comprises a single flow orifice having an ovular shape.
- 34. (Previously Presented) The device of claim 31, wherein the at least one constricted flow orifice comprises a plurality of circular-shaped flow orifices.
- 35. (Previously Presented) The device of claim 1, wherein the at least two nonoverlapping projections extend in a substantially perpendicular direction from the one or more walls of the channel.

36-39. (Cancelled)

- 40. (New) The device of claim 1, wherein the open flow channel extends from the proximal end to the distal end of the channel.
- 41. (New) The device of claim 1, wherein the open flow channel is continuous and straight.

42. (New) The device of claim 1, wherein the projections comprise stainless steel, nitinol or teflon.